

FLORA OF RAJGIR HILLS, BIHAR¹

S. R. PAUL²

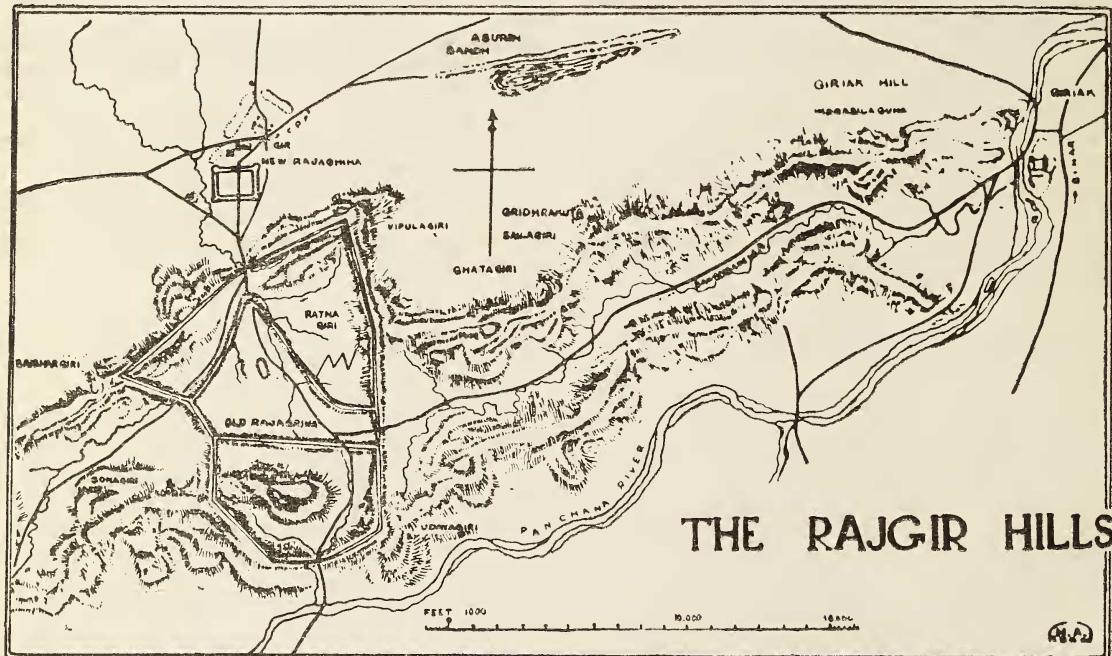
(With a map)

INTRODUCTION

Rajgir, the capital of ancient Magadha was first known and identified by Dr. Buchanan Hamilton as Rajagriha or Giribraja, the residence of Buddha. The city is surrounded by five hills which is mentioned in the Mahabharata and in the Pali annals. The Rajgir hills are a part of a range running north-east near Bodh-Gaya and the main hills are two parallel ranges between Rajgir and Giraik,

situated at $25^{\circ} 1' 45''$ N, $85^{\circ} 28'$ E (Map 1). Ratnagiri which is about 305 m is the highest peak among the five hills. The soil layer is thin, coarse and just below it lie rocks. Rajgir has a monsoon type of climate with an annual rainfall of approx. 113 cm, with the maximum rainfall in July-August.

Rajgir hills remained unexplored botanically and there is no detailed catalogue of the flowering plants of the area except a very short account by Srivastava (1956) who gave a list of about forty-eight angiosperms. This study gives a comprehensive list of 399 vascular plants in the flora of the area based mainly on the col-



Map 1

FLORA OF RAJGIR HILLS

lections made by the parties of the National Botanic Gardens, Lucknow (LWG) and Central Drug Research Institute (CDRI) supplemented by my personnel collections. The frequency of occurrence based on visual estimation, flowering and fruiting period and field numbers are provided for each species.

According to Haines (1921-25) no specimens of *Trachyspermum strictocarpum* (Cl.) Wolf has ever been collected from the province, although he surmised that it probably enters the province. It is found throughout Higher Vindhyan range from Pachmari, through the Balaghat plateau to the mountains of Bilaspur and its occurrence on Rajgir hills is interesting phytogeographically. Mooney (Suppl. 68.1950) recorded it from Kalahandi (Orissa) and the present report is an addition to the Bihar flora. *Galactia tenuiflora* (Klein ex Willd.) Wt. & Arn., *Acacia gageana* Craib. and *Lolium perenne* L. are recorded for the first time from Bihar.

RANUNCULACEAE

Ranunculus scleratus L.

Common in open, moist places. *Fl.* : Feb., *Paul* 2523.

DILLENIACEAE

Dillenia pentagyna Roxb.

Frequent in scrub jungles. *Fl.* : April. *Paul* 2505.

ANNONACEAE

Miliusa tomentosa (Roxb.) Sinclair

Common in open grounds. *Fl.* : April. *Srivastava & Party* 20658.

MENISPERMACEAE

Cissampelos pareira L.

Frequent in village hedges. *Fl.* : Sept. *Fr. Dec. Saran & Party* 25847.

Cocculus hirsutus (L.) Diels.

Rare in waste land. *Fr.* : April. *Srivastava & Party* 46683.

Stephania japonica (Thunb.) Miers

Not common in villages. *Fl.* : Aug. *Paul* 2512.

NYMPHAEACEAE

Nymphaea stellata Willd.

Rare in paddy-fields. *Fl.* : Oct.

PAPAVERACEAE

Argemone mexicana L.

Common weed of waste land. *Fl.* : April. *Saran & Party* 25864.

FUMARIACEAE

Fumaria parviflora Lamk.

Not common in cultivated fields. *Fl.* : Oct.-Nov. *Srivastava & Party* 46659.

CRUCIFERAE

Brassica campestris L. var. **sarson** Prain

Found as an escape from cultivation.

Cochlearia flava Buch.-Ham.

Rare in cultivated fields. *Fl.* : Nov. *Saran & Party* 25648.

Rorippa indica (L.) Bailey

Not common along banks of streams. *Fl.* : Jan. *Paul* 2537.

CAPPARACEAE

Capparis sepiaria L.

Large climber. Common. *Fl.* : March-May. *Srivastava & Party* 20623 ; *Singh & Party* 2388 (CDRI).

C. zeylanica L.

Frequent in hedges. *Fl.* : April. *Saran & Party* 25869.

CLEOMACEAE

Cleome gynandra L.

Common weed of waste places. *Fl.* : July-Sept. *Paul* 2520.

C. viscosa L.

Common in open waste grounds. *Fl.* : Aug.-Oct. *Paul* 2538.

VIOLACEAE

Ionidium enneaspermus (L.) F. Muell

Not common. *Fl.* : Nov.-Dec. *Paul* 2540.

FLACOURTIACEAE

Flacourzia indica (Burm.) Merr.

Rare in open places. *Fl.* : Dec.-Feb. *Paul* 2503.

F. sepiaria Roxb.

Frequent in open waste lands. *Fr.* : March. *Srivastava & Party* 20626.

COCHLOSPERMACEAE

Cochlospermum religiosum (L.) Alst.

Frequent. *Fl.* : Feb.-April. *Fr.* : May-June. *Saran & Party* 25831.

POLYGALACEAE

Polygala chinensis L.

Common in waste places among grass. *Fl.* : Aug.-Oct. *Chandra & Party* 37023.

P. erioptera DC.

Frequent among grass. *Fl.* : Dec.-Jan. *Chandra & Party* 37022; *Saran & Party* 25849; *Srivastava & Party* 46520.

CARYOPHYLLACEAE

Polycarpon prostratum (Forsk.) Aschers & Schweinf.

In moist, waste land. Rare. *Fl.* : Oct.-Dec. *Saran & Party* 25021.

PORTULACACEAE

Portulaca oleracea L.

Common in waste places. *Fl.* : Aug. *Chandra & Party* 29340.

P. quadrifida L.

Frequent. *Fl.* : Sept., *Srivastava & Party* 46737.

MALVACEAE

Abutilon indicum (L.) Sweet

Not common in hedges. *Fl.* : Aug. *Saran & Party* 25690.

Abelmoschus manihot (L.) Medic.

Frequent in undergrowth of forest. *Fl.* : Oct.-Nov. *Paul* 2549.

Azanza lampas (Cav.) Alef.

Frequent on hilly slopes. *Fl.* : Sept. *Saran & Party* 25888.

Hibiscus lobatus (Murr.) O. Kuntze

Rare near streams. *Fl.* : Sept.-Oct.

H. ovalifolius (Forsk.) Vahl

Frequent in waste ground. *Fl.* : April. *Srivastava & Party* 20617.

H. vitifolius L.

Fairly common on hilly paths. *Fl.* : Nov. *Saran & Party* 25683.

Kydia calycina Roxb.

Not common in forest. *Fl.* : Oct. *Paul* 2534.

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Malvastrum coromandelianum (L.) Garcke
Common in moist, waste land. *Fl.* :
Aug.-Oct. *Saran & Party* 25610.

Sida acuta Burm. f.
Common weed of waste places. *Fl.* :
Aug.-Oct. *Saran & Party* 25691.

S. cordifolia DC.
Not common. *Fl.* : Aug.-Sept. *Paul* 2515.

S. rhombifolia L. subsp. *rhombifolia*.
Frequent in waste land. *Fl.* : Sept. *Paul*
2526.

S. spinosa L.
Fairly common on the edge of forests.
Fl. : Oct.-Nov. *Saran & Party* 25681.

S. veronicaefolia Lamk.
Frequent along roadsides. *Fl.* & *Fr.* :
Sept.-Feb. *Chandra & Party* 36932.

Urena lobata L. subsp. *sinuata* var. *sinuata* (L.)
Borss.

Common in waste land and along streams.
Fl. & *Fr.* : Sept.- Jan. *Srivastava & Party*
46598.

BOMBACACEAE

Bombax ceiba L.
Not common in valleys. *Fl.* : Feb. *Fr.* :
April-May.

STERCULIACEAE

Helicteres isora L.
Common in the forest. *Fl.* : March-April.
Srivastava & Party 46529.

Melochia corchorifolia L.
Rare in the plains near villages. *Fl.* &
Fr. : Sept. *Chandra & Party* 37017.

Sterculia urens Roxb.

A few trees noted in scrub jungles. *Fl.* :
Jan.-Feb. *Srivastava & Party* 20644.

Waltheria indica L.

Not common in open lands near foot-
hills. *Fl.* Aug.-Sept. *Srivastava & Party*
20647 ; *Saran & Party* 46527.

TILIACEAE

Corchorus aestuans L.

Not common on hilly slopes. *Fl.* : Feb.-
March. *Srivastava & Party* 46627.

C. capsularis L.

Rare near ditches. *Fl.* : July-Aug. *Paul*
2530.

C. trilocularis L.

Frequent in moist places. *Fl.* : June-July.
Srivastava & Party 20194.

Grewia disperma Rottl. ex Spreng.

Rare in forest. *Fl.* : July-Oct. *Srivastava*,
s.n.

G. hirsuta Vanb.

Occasional in forests. *Fl.* : Sept. *Chandra &*
Party 36994.

G. tiliifolia Vahl

Common in open lands. *Fl.* : Oct.-
Nov. *Srivastava & Party* 20639, 20645.

Triumfetta neglecta W. & A.

Frequent in valleys. *Fl.* : Oct.-Dec.
Saran & Party 25694.

T. rhomboidea Jacq.

Frequent in waste places. *Fl.* : Nov.-Dec.
Chandra & Party, *s.n.*

LINACEAE

Linum usitatissimum L.

Not common. Found as an escape along road sides. *Fl. & Fr.* : Nov.-Jan. *Saran & Party* 25928.

OXALIDACEAE

Biophytum sensitivum DC.

Not common among grasses. *Fl. & Fr.* : July-Sept. *Srivastava, s.n.*

B. reinwardtii (Zucc.) Klotz.

Frequent in moist, shady grounds. *Fl.* : Aug.-Oct. *Saran & Party* 46562.

Oxalis corniculata L.

Common in open, wastelands. *Fl. & Fr.* : March-Oct. *Saran & Party* 25693.

O. latifolia H.B. & K.

Not common in moist, shady places near cultivated fields. *Fl.* : Aug. *Srivastava & Party* 21134.

RUTACEAE

Atalantia monophylla (Roxb.) DC.

Not common. *Fl. & Fr.* : Nov.-March. *Saran & Party* 25650.

Murraya paniculata (L.) Jacq.

Frequent in valleys. *Fl. & Fr.* : April-June. *Saran & Party* 25624; *Srivastava & Party* 25625.

SIMAROUBACEAE

Balanites roxburghii Planch.

Frequent in scrub jungles. *Fl. & Fr.* : Feb.-May. *Chandra & Party* 37027.

BURSERACEAE

Boswellia serrata Roxb.

Local name : Salai.

Occasional in forest. *Fl. & Fr.* : Feb.-May. *Srivastava & Party* 20653, 46518.

Garuga pinnata Roxb.

Local name : Kekar.

Not common in the Forest. *Fl. & Fr.* : March-July. *Paul* 2502.

MELIACEAE

Sympedea febrifuga A. Juss.

Local name : Rohini.

Occasional. *Fl.* : March-April. *Fr.* : June. *Paul* 2541.

Walsura piscidia Roxb.

Common inside the forest. *Fl. & Fr.* : Feb.-April. *Srivastava & Party* 20661; *Saran & Party* 25813, 46513.

OLACINACEAE

Olax scandens Roxb.

Local name : Ramilbari.

Common in forest. *Fl. & Fr.* : April-July. *Srivastava & Party* 20620, 46538; *Saran & Party* 25899.

OPILIACEAE

Cansjera rheedii Gmel.

Rare in open places. *Fl. & Fr.* : Dec.-March. *Paul* 2550.

CELASTRACEAE

Celastrus paniculata Willd.

Frequent. Conspicuous from the colour of its aril. *Fl. & Fr.* : April-Sept. *Paul* 2524.

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Elaeodendron glaucum Pers.

Occasional. *Fl. & Fr.* : Oct.-Dec. *Paul* 2510.

Schleichera oleosa (Lour.) Oken.

Occasional in forest. *Fl. & Fr.* : March-Aug. *Srivastava & Party* 46540.

RHAMNACEAE

Ventilago denticulata Willd.

Frequently climbing over large bushes. *Fl. & Fr.* : Oct.-Jan. *Saran & Party* 25844 ; *Srivastava & Party* 46539.

ANACARDIACEAE

Zizyphus mauritiana Lamk.

Common in dry places. *Fl. & Fr.* : Feb.-March. *Chandra & Party* 37029. *Paul* 2501.

Buchanania lanza Spreng.

Frequent along roadsides. *Fl. & Fr.* : April-May. *Srivastava & Party* 20652.

Z. oenoplia Mill.

Rare in waste places. *Fl.* : July-Aug. *Paul* 2528.

Lannea coromandelica (Houtt.) Merr.

Frequent. *Fl. & Fr.* : April-June. *Saran & Party* 25633.

Z. xylopyra (Retz.) Willd.

Frequent in forest. *Fl. & Fr.* : March-April. *Saran & Party* 46555, 25866 ; *Srivastava & Party* 20651.

PAPILIONACEAE

VITACEAE

Ampelocissus latifolia (Roxb.) Planch.

Occasional. *Fl. & Fr.* : April-Aug. *Paul* 2517.

Abrus precatorius L.

Not common. *Fl. & Fr.* : Sept.-Feb. *Saran & Party* 25661.

Cayratia trifolia (L.) Domin

Common. *Fl. & Fr.* : March-Nov. *Chandra & Party* 29343.

Alhagi pseudalhagi (M.B.) Desv.

Not common in Plains. *Fl.* : Feb.-April. *Paul* 2543.

Alysicarpus bupleurifolius (L.) DC.

Frequent in grasslands. *Fl. & Fr.* : Aug.-Nov. *Paul* 2504.

A. monilifer (L.) DC.

Common in waste places. *Fl. & Fr.* : Sept.-Dec. *Srivastava & Party, s.n.*

A. vaginalis (L.) DC.

Frequent among grasses on moist grounds. *Fl. & Fr.* : Oct.-Jan. *Paul* 2513.

SAPINDACEAE

Cardiospermum halicacabum L.

Fairly common in Villages. *Fl.* : April-May. *Saran & Party* 25674,

Butea monosperma (Lam.) Taub.

Local name : Palas. Rare. *Fl. & Fr.* : Feb.-June. *Saran & Party, s.n.*

- Crotalaria calycina** Sch.
Rare in waste lands. *Fl.* : July-Sept.
Paul 2547.
- C. chinensis** L.
Frequent in forest. *Fl.* & *Fr.* : Sept.-Dec. *Srivastava & Party* 46632.
- C. evolvuloides** Wight
Frequent in shady places. *Fl.* & *Fr.* : Aug.-Jan. *Srivastava & Party* 21552.
- C. prostrata** Rottl. ex Willd.
Frequent in forest. *Fl.* & *Fr.* : Aug.-Oct. *Paul* 2531.
- C. sericea** Retz.
Rare in grasslands. *Fl.* & *Fr.* : Aug.-Jan. *Paul* 2511.
- Dalbergia latifolia** Roxb.
Frequent in open places. *Fl.* & *Fr.* : Sept.-Feb. *Srivastava & Party* 46547, 46535.
- D. paniculata** Roxb.
Occasional in forest. *Fl.* & *Fr.* : July-Oct. *Saran & Party* 25870.
- Desmodium gangeticum** (L.) DC.
Fairly common. *Fl.* & *Fr.* : April-Oct. *Srivastava & Party* 46551.
- D. latifolium** DC.
Rare in waste grounds. *Fl.* & *Fr.* : Sept.-Nov. *Paul* 2506.
- D. motorium** (Hout.) Merr.
Not common among grasses. *Fl.* & *Fr.* : April-Sept. *Paul* 2525.
- D. pulchellum** Benth.
Frequent. *Fl.* & *Fr.* : Sept.-Dec. *Paul* 2636.
- D. triangulare** (Retz.) Merr.
Not common in moist places. *Fl.* & *Fr.* : Aug.-Jan. *Paul* 2516.
- D. triflorum** (L.) DC.
Common in wastelands. *Fl.* & *Fr.* : Sept.-Feb. *Srivastava & Party* 46594.
- Galactia tenuiflora** (Klein ex Willd.) Wt. & Arn.
Frequent. *Fl.* & *Fr.* : July-Feb. *Saran & Party* 25898.
(This is the only record for the province).
- Indigofera hamiltoni** Grah.
Frequent in forest. *Fl.* & *Fr.* : March-June. *Saran & Party* 25895.
- I. hirsuta** L.
Common in moist places. *Fl.* & *Fr.* : Sept.-Nov. *Srivastava & Party* 46507.
- I. linifolia** (L.) Retz.
Common. *Fl.* & *Fr.* : July-Dec. *Srivastava & Party* 46522 ; *Saran & Party* 25881.
- I. linnaei** Ali
Frequent. *Fl.* : Aug. *Chandra & Party* 37000.
- I. pulchella** Roxb.
Frequent. *Fl.* : Dec.-Feb. *Srivastava & Party* 20656, 20635.
- I. tinctoria** L.
Not common in forest. *Fl.* & *Fr.* : Aug.-Nov. *Saran & Party* 46579.
- Lathyrus sativus** L.
Escape from cultivation. *Fr.* : Oct. *Srivastava & Party* 46615.
- Medicago denticulata** Willd.
Rare among grasses. *Fl.* & *Fr.* : Aug.-Dec. *Paul* 2027.
- Melilotus alba** Desr.
Common weed of cultivation. *Fl.* & *Fr.* : Feb.-April. *Saran & Party* 25936.

M. indica (L.) All.

In cultivated fields. *Fl.* & *Fr.* : Oct.-Dec.
Paul 2508.

Milletia auriculata Baker ex Brand.

Rare in forest. *Fl.* & *Fr.* : Aug.-Feb.
Paul 2532.

Mucuna pruriens (L.) DC.

Local name : Kanwach.

Occasional in forest. *Fr.* : Oct.-Dec. *Paul* 2514.

Ougenia oojeinensis (Roxb.) Hoch.

Rare in open places. *Fr.* : Feb.

Phaseolus calcaratus Roxb.

Not common in forest. *Fl.* & *Fr.* : Oct.-Jan. *Chandra & Party* 29299.

Pterocarpus marsupium Roxb.

Not common. *Fl.* & *Fr.* : Oct.-Feb.
Srivastava & Party 20643.

Rhynchosia minima DC.

Frequent in waste places. *Fl.* & *Fr.* : Aug.-Nov. *Srivastava & Party* 46681.

Tephrosia purpurea Pers.

Frequent on dry soils. *Fl.* & *Fr.* : Oct.-Feb. *Srivastava & Party* 20629.

Teramnus labialis (L.f.) Spreng.

Occasional in forest. *Fl.* & *Fr.* : Sept.-Dec. *Paul* 2518.

Uraria picta Desv.

Rare in forest. *Fl.* & *Fr.* : Aug.-Oct.
Paul 2544.

Vicia hirsuta Gray

Frequent in cultivated fields. *Fl.* & *Fr.* : Sept.-Dec. *Paul* 2507.

Zornia gibbosa Spanoghe

Common in dry paddy fields. *Fl.* : Nov.
Paul 2536.

CAESALPINIACEAE

Bauhinia malabarica Roxb.

Frequent. *Fl.* : March-Oct. *Srivastava & Party* 20657.

B. vahlii Wt. & Arn.

Not common. *Fl.* & *Fr.* : July-Jan. *Paul* 2509.

B. variegata L.

Occasional. *Fl.* : Feb.-March. *Saran & Party* 25621.

Cassia fistula L.

Not common. *Fl.* & *Fr.* : June-Nov.
Srivastava & Party 20644.

C. occidentalis L.

Common in waste places. *Fl.* & *Fr.* : Aug.-Oct. *Saran & Party* 25675.

C. sophora L.

Frequent. *Fl.* & *Fr.* : Sept.-Nov. *Srivastava & Party* 26491.

C. tora L.

Frequent in waste grounds. *Fl.* & *Fr.* : Oct.-Feb. *Paul* 2535

MIMOSACEAE

Acacia catechu (L.f.) Willd.

Not common along forest edges. *Fl.* & *Fr.* : March-May. *Paul* 2546.

A. gageana Craib. in Kew Bull. 1915 : 409,
1915.

Rare in forest. *Fl.* : April. *Srivastava & Party* 46516.

New record for Bihar & Orissa. *Distr.* :
W. Pakistan ; Jammu.

A. nilotica (L.) Delile subsp. <i>indica</i> (Benth.)	COMBRETACEAE
Brenan	
Frequent. <i>Fl.</i> : Oct.-Nov. <i>Saran & Party</i> 25660.	Combretum decandrum Roxb.
	Not common. <i>Fl.</i> : Oct.-Feb. <i>Saran & Party</i> 25823, 46526.
A. torta (Roxb.) Craib.	C. nanum Ham.
Not common. <i>Fl.</i> : Oct.-Nov. <i>Srivastava & Party</i> 20634, 46516.	Rare. <i>Fl.</i> : March-May. <i>Saran & Party</i> 25671.
Albizzia lebbek (L.) Benth.	Terminalia bellirica (Gaertn.) Roxb.
Not common in valleys. <i>Fr.</i> : Oct.-Nov. <i>Srivastava & Party</i> 20633.	Not common. <i>Fr.</i> : Jan.-Feb. <i>Paul</i> 2522.
A. odoratissima (L.f.) Benth.	T. tomentosa Wt. & Arn.
Occasional. <i>Fl.</i> : March-April. <i>Paul</i> 2639.	Frequent. <i>Fr.</i> : April-June. <i>Chandra & Party</i> 28141.
Mimosa himalayana Gamble	MYRTACEAE
Common. <i>Fl.</i> & <i>Fr.</i> : April-June. <i>Srivastava & Party</i> 20627.	Syzygium jambos (L.) Alston
M. pudica L.	Frequent. <i>Fl.</i> & <i>Fr.</i> : April-July. <i>Paul</i> 2545.
Rare in waste grounds. <i>Fl.</i> & <i>Fr.</i> : Aug.-Oct. <i>Paul</i> 2521.	LYTHRACEAE
Neptunia oleracea Lour.	
Not common in streams. <i>Fl.</i> & <i>Fr.</i> : Oct.-Nov. <i>Srivastava & Party</i> 21497.	Ammannia baccifera L.
	Occasional near streams. <i>Fl.</i> & <i>Fr.</i> : Sept.-Dec. <i>Saran & Party</i> 25577.
Potentilla supina L.	Rotala indica (Willd.) Koehne
Frequent. <i>Fl.</i> : April-May. <i>Saran & Party</i> 25930.	Frequent in marshy places. <i>Fl.</i> : Oct.-Nov. <i>Paul</i> 2554.
Rosa macrophylla Lindl.	R. rotundifolia (Buch.-Ham.) Koehne
Some plants were noted as escape from cultivation. <i>Fl.</i> : Oct. <i>Saran & Party</i> 25929.	Common aquatic. <i>Fl.</i> : March-June. <i>Paul</i> 2519.
DROSERACEAE	Woodfordia fruticosa (L.) Kurz
Drosera burmanni Vahl	<i>Local name</i> : Dhaki.
Rare in Swampy fields. <i>Fl.</i> : April-June. <i>Paul</i> 2548.	Frequent in open, dry places in the forest. <i>Fl.</i> & <i>Fr.</i> : Feb.-May. <i>Saran & Party</i> 25829, 46557.

ONAGRACEAE

Ludwigia octovalvis (Jacq.) Raven subsp. *octovalvis*
Common in moist grounds. *Fl.* : Nov.
Saran & Party 25678.

L. perennis L.

Frequent in rice-fields. *Fl.* : Sept.-Oct.
Saran & Party 25695.

CUCURBITACEAE

Bryonopsis amplexicaulis Lamk.

Common climber. *Fr.* : Oct.-Nov. *Srivastava & Party* 25631.

Coccinia grandis (L.) Voight

Frequent in village hedges. *Fr.* : Oct.-Nov. *Srivastava & Party* 46585.

Momordica dioica Roxb.

Frequent in waste grounds. *Fl. & Fr.* : Sept.-Nov. *Paul* 2533.

Trichosanthes dioica Roxb.

Occasional. *Fr.* : Feb.-March. *Srivastava & Party* 46561.

FICOIDACEAE

Mollugo nudicaulis Lamk.

Frequent. *Fl. & Fr.* : Feb.-Sept. *Srivastava & Party* 21492.

M. pentaphylla L.

Not common in open fields. *Fl.* : July-Oct. *Paul* 2551.

Trianthema portulacastrum L.

Fairly common. *Fl. & Fr.* : Sept.-Jan. *Chandra & Party* 29356, 29352 ; *Srivastava & Party* 46661.

UMBELLIFERAE

Centella asiatica (L.) Urban

Frequent along roadsides. *Fr.* : Oct. *Saran & Party* 25696.

Seseli indicum W. & A.

Common. *Fl.* : Jan.-March. *Srivastava & Party* 21550.

Trachyspermum strictocarpum (Cl.) Wolf

Not common. *Fl. & Fr.* : Sept.-Feb. *Saran & Party* 25923 ; *Singh & Party* 2384 (CDRI).

ALANGIACEAE

Alangium salviifolium (L.f.) Wang.

Common on hills. *Fl.* : Feb.-April. *Saran & Party* 25817.

RUBIACEAE

Anthocephalus cadamba (Roxb.) Miq.

Occasional. *Fl.* : April-July. *Srivastava & Party* 20650.

Borreria stricta (L.f.) C.F.W. Mey

Frequent along way side and waste lands. *Fl.* : Sept.-Nov. *Paul* 2529.

Gardenia latifolia Aiton

Occasional in forest. *Fl.* : April-June. *Paul* 2553.

G. turgida Roxb.

Frequent. *Fl. & Fr.* : March-April. *Srivastava & Party* 20649 ; *Saran & Party* 25842.

Hedyotis hispida Retz.

Occasional. *Fr.* : Jan.-Feb. *Saran & Party* 25927.

Hymenodictyon exselsum Wall.

Not common. *Fl.* : Oct.-Feb. *Saran & Party* 25895.

B. mollis (D. Don) Merrill

Not common in cultivated fields. *Fl.* : Nov.-Dec. *Paul* 2562.

Ixora arborea Roxb. ex Smith

Frequent. *Fl.* : March-April. *Saran & Party* 25824.

B. oxydonta DC.

Frequent along roadsides. *Fl.* : Jan.-March. *Paul* 2568.

Oldenlandia affinis (R. & S.) DC.

Occasional near river banks. *Fr.* : Oct.-Dec. *Paul* 2542.

Caesulia axillaris Roxb.

Common in rice-fields. *Fl.* : Oct.-Nov. *Paul* 2578.

O. corymbosa L.

Frequent. *Fl.* : Oct. *Paul* 1500.

Eclipta prostrata (L.) Linn.

Common in rice-fields. *Fl.* : Sept.-Dec. *Paul* 2570.

O. ovatifolia (Cav.) DC.

Frequent. *Fl.* : Nov.-Feb. *Paul* 2573.

Elephantopus scaber L.

Not common in grassland. *Fl.* : & *Fr.* : Aug.-Oct. *Paul* 2557.

Pavetta indica L.

Frequent. *Fl.* : June. *Srivastava & Party* 46553. *Saran & Party* 25886.

Emilia sonchifolia DC.

Occasional in waste places. *Fl.* : Oct.-Nov. *Paul* 2569.

P. tomentosa (Haines) Bremek.

Not common along footpaths. *Fl.* : Nov.-Jan. *Srivastava & Party* 20640.

Gnaphalium indicum L.

Frequent along muddy banks of streams. *Fl.* : Oct.-Jan. *Paul* 2571.

Xeromphis spinosa (Thunb.) Poir.

Occasional. *Fl.* : Feb.-June. *Paul* 2555.

G. purpurium L.

Not common in wet ground. *Fl.* : Feb. *Paul* 2566.

COMPOSITAE

Ageratum conyzoides L.

Very Common everywhere. *Fl.* : Dec. *Paul* 2552.

Grangea maderaspatana Poir.

Common. *Fl.* & *Fr.* : April-July. *Saran & Party* 25685.

Blumea jacquemontii Hook. f.

Frequent. *Fl.* : Feb. *Srivastava & Party* 46517.

Laggera alata Sch.-Bip.

Rare. *Fl.* : Sept.-Nov. *Paul* 2556.

B. lacera DC.

Occasional in sheltered places. *Fl.* : Jan.-Feb. *Paul* 2560.

Launaea procumbens (Roxb.) Ramayya & Rajagopal

Frequent among grasses. *Fl.* : April. *Paul* 2580.

B. laciniata DC.

Occasional in wastelands. *Fl.* : March. *Saran & Party* 25699.

Senecio nudicaulis Buch.-Ham.

Frequent. *Fl.* : Sept. *Paul* 2561.

Sonchus brachyotus DC.	SAPOTACEAE
Common. <i>Fl.</i> : Oct.-Dec.	
S. oleraceus L.	
Frequent. <i>Fl.</i> : July. <i>Srivastava & Party</i> , <i>s. n.</i>	Rare. <i>Fl.</i> & <i>Fr.</i> : May-Jan. <i>Saran & Party</i> , <i>s.n.</i>
Sphaeranthus indicus L.	EBENACEAE
Common in marshy places. <i>Fl.</i> : Feb.-Oct. <i>Paul 2574.</i>	
Tridax procumbens L.	
Very Common. <i>Fl.</i> : Aug.-Nov. <i>Paul 2579.</i>	<i>D. montana Roxb.</i>
Vernonia cinerea Less.	Occasional. <i>Fr.</i> : June. <i>Saran & Party 25816.</i>
Common in waste, open places. <i>Fl.</i> : Feb. <i>Paul 2583.</i>	<i>D. tomentosa Roxb.</i>
Vicoa indica (Willd.) DC.	Frequent. <i>Fr.</i> : April-May. <i>Srivastava & Party 20656.</i>
Common. <i>Fl.</i> : Feb.-Nov. <i>Srivastava & Party 46548.</i>	NYCTANTHACEAE
Xanthium indicum Koenig	
Common. <i>Fr.</i> : Oct.-Dec. <i>Paul 2594.</i>	<i>Nyctanthus arbor-tristis L.</i>
	Occasional. <i>Fl.</i> : April. <i>Srivastava & Party 46532.</i>
CAMPANULACEAE	APOCYNACEAE
Campanula benthamii Wall. ex Kitamura	
Rare. <i>Fl.</i> : Feb.-March. <i>Paul 2575.</i>	<i>Carissa opaca Stapf ex Haines</i>
	Frequently met with on hilly slopes. <i>Fl.</i> & <i>Fr.</i> : Feb.-April. <i>Saran & Party 25808.</i>
PRIMULACEAE	
Anagallis arvensis L.	<i>C. paucinervia A. DC.</i>
Not common in moist ground. <i>Fl.</i> : Oct.-Dec. <i>Paul 2590.</i>	Not common. <i>Fl.</i> & <i>Fr.</i> : Oct. Dec. <i>Saran & Party 25808.</i>
	<i>Ichnocarpus frutescens (L.) Ait. & Ait.</i>
	Common climber in shady localities. <i>Fl.</i> Oct.-Jan. <i>Saran & Party 25827.</i>
MYRSINACEAE	
Ardisia solanacea (Poir.) Roxb.	<i>Wrightia tomentosa Roem. & Sch.</i>
Occasional in valleys. <i>Fl.</i> & <i>Fr.</i> : Feb.-July. <i>Paul 2558.</i>	Frequent. <i>Fl.</i> & <i>Fr.</i> : April-Dec. <i>Saran & Party 25884 ; Srivastava & Party 46514.</i>

ASCLEPIADACEAE

Calotropis procera R. Br.

Frequent along roadsides. *Fl.* : March-April. *Saran & Party* 25862.

Cryptolepis buchanani Roem. & Sch.

Not common. *Fl.* & *Fr.* : May-Dec. *Srivastava & Party, s. n.*

Dragea volubilis (L.f.) Benth. ex Hook. f.

Frequent. *Fr.* : April. *Chandra & Party, s. n.*

Gymnema sylvestris R. Br.

Common. *Fl.* & *Fr.* : Aug.-Feb. *Saran & Party* 25809 ; *Srivastava & Party* 20901.

Hemidesmus indicus (L.) Sch.

Common. *Fl.* & *Fr.* : Sept.-Nov. *Srivastava & Party* 46558.

GENTIANACEAE

Canscra diffusa (Vahl) R. Br.

Common in moist, shady places. *Fl.* & *Fr.* : Oct.-March. *Saran & Party* 25944.

Exacum tetragonum Roxb.

Not common among grasses. *Fl.* : Sept.-Nov. *Srivastava & Party, s. n.*

Nymphoides indicum (L.) O. Kuntze.

Rare aquatic. *Fl.* : May-Oct. *Paul* 2592.

BORAGINACEAE

Cordia dichotoma Forst. f.

Rare. *Fl.* & *Fr.* : March-April. *Paul* 2559.

Cynoglossum lanceolatum Forsk.

Not common in waste grounds and along roadsides. *Fl.* April-Nov. *Paul* 2584.

Heliotropium indicum L.

Frequent. *Fl.* : Aug.-Sept. *Saran & Party* 25679.

H. ovalifolium Forsk.

Occasional. *Fl.* : Feb.-March. *Saran & Party* 25932.

H. supinum L.

Frequent. *Fl.* & *Fr.* : Jan.-Feb. *Saran & Party* 25937.

Trichodesma indicum R. Br.

Occasional. *Fl.* : Oct.-Nov. *Paul* 2563.

CONVOLVULACEAE

Cuscuta reflexa Roxb.

Occasional. *Fl.* : Oct.-Nov. *Chandra & Party, s. n.*

Convolvulus arvensis Sieb. ex Spreng.

Rare in cultivated fields. *Fl.* : Feb.-April. *Paul* 2572.

Erycibe paniculata Roxb.

Frequent. *Fl.* & *Fr.* : April-June. *Srivastava & Party* 46552.

Evolvulus alsinoides L.

Common. *Fl.* & *Fr.* : July-Oct. *Saran & Party* 25901.

E. nummularius L.

Not common. *Fl.* : Oct.-Dec. *Saran & Party, s. n.*

Ipomoea aquatica Forsk.

Abundant. *Fl.* & *Fr.* : March-Oct. *Paul* 2576.

I. nil (L.) Roth

Occasional in waste lands. *Fl.* & *Fr.* : March-June. *Paul* 2585.

FLORA OF RAJGIR HILLS

I. pestigridis L.

Frequent in cultivated fields. *Fl.* : Aug.-Sept. *Paul* 2593.

Merremia emarginata (Burm. f.) Hallier f.

Frequent in paddy-fields. *Fl.* : Oct.-Dec. *Saran & Party* 25915.

Porana paniculata Roxb.

Frequent on hedges in scrub-jungles. *Fl.* : Oct.-Dec. *Paul* 2567.

Rivea ornata Choisy

Not common in waste lands. *Fl.* : Aug.-Sept. *Saran & Party* 25868.

SOLANACEAE

Capsicum annuum L.

Occasional near houses. *Fl.* : Aug. *Saran & Party* 25835.

Datura metel L.

Frequent in low-lying fields near villages. *Fl.* : April-May. *Srivastava & Party* 46711.

Nicotiana plumbaginifolia Viv.

A weed introduced from Mexico ; naturalized in waste, moist places. *Fl.* : March-June. *Saran & Party* 25912.

Solanum nigrum L.

Common in cultivated fields. *Fr.* : July-Sept. *Paul* 2591.

S. surattense Burm. f.

Frequent in waste lands. *Fl.* : Nov.-Jan. *Saran & Party* 25804.

SCROPHULARIACEAE

Limnophila indica (L.) Druce

Not common in muddy places. *Fl.* : Sept.-Nov. *Paul* 2564.

Lindenbergia muraria (Roxb.) Bruhl

Occasional. *Fl.* : Oct.-Dec. *Saran & Party* 25664.

Lindernia crustacea (L.) F. Muell.

Common in moist, shady places. *Fl.* : July-Sept. *Paul* 2595.

L. parviflora (Roxb.) Haines

Frequent in marshy places. *Fl.* : Aug.-Sept. *Paul* 2565.

L. sessiliflora (Benth.) Wettst.

Frequent. *Fl.* : July-Aug. *Paul* 2581.

Scoparia dulcis L.

Common in cultivated fields. *Fl.* : Aug.-Sept. *Paul* 2600.

OROBANCHACEAE

Orobanche aegyptiaca Pers.

Common parasite on roots of cultivated plants. *Fl.* : Oct.-Feb. *Paul* 2588.

LENTIBULARIACEAE

Utricularia inflexa Forsk. var. **stellaris** (L.f.)

Taylor

Occasional in swamps, paddy fields, etc. *Fl.* & *Fr.* : Oct.-Nov. *Paul* 2610.

BIGNONIACEAE

Stereospermum chelonoides (L.f.) DC.

Occasional in forest. *Fl.* & *Fr.* : Feb.-April. *Paul* 2586.

PEDALIACEAE

Martynia annua L.

Not common among grasses. *Fl.* : Aug. *Paul* 2599.

Sesamum indicum L.

Frequent in cultivated fields. *Fl.* & *Fr.* : July-Oct. *Srivastava & Party* 21520.

ACANTHACEAE

Adhatoda vasica Nees

Occasional. *Fl. & Fr.* : Nov.-Jan. *Saran & Party* 2584.

Andrographis paniculata Nees

Frequent in moist places. *Fl.* : Aug.-Oct. *Srivastava & Party* 46630.

Barleria cristata L.

Frequent in swampy places. *Fl.* : Nov. *Paul* 2587.

B. prionitis L.

Not common in open places. *Fl.* : Oct.-Nov. *Paul* 2605.

Blepharis maderaspatensis (L.) Heyne ex Roth

Common in hedges and open, moist places. *Fl.* : Nov. *Saran & Party* 25904.

Dicliptera micranthes Nees

Occasional in forest. *Fl.* : Feb. *Saran & Party* 25625.

Eranthemum purpurascens Nees

Frequent in forest. *Fl.* : March-April. *Srivastava & Party* 46625.

Hemigraphis hirta T. Anders

Frequent along hill slopes. *Fl.* : March-April. *Saran & Party* 25619.

Hygrophila auriculata (Sch.) Heyne

Occasional along water courses. *Fl.* : Aug.-Oct. *Saran & Party* 25676.

Indoneesiella echioides (L.) Sreem.

Frequent in waste lands. *Fl.* : Nov. *Saran & Party* 25907.

Justicia diffusa Willd.

Common in cultivated fields. *Fl.* : Dec.-Feb. *Paul* 2597.

J. quinqueangularis Koen. ex Roxb.

Frequent in fields and waste grounds. *Fl.* : Feb. *Srivastava & Party* 46690.

Peristrophe bicalyculata Nees

Common in hedges. *Fl.* : Nov. *Saran & Party* 25850.

Rungia pectinata (L.) Nees

Common in dry sandy soils and in open fields. *Fl.* : Oct.-Dec. *Srivastava & Party* 20621.

R. repens (L.) Nees

Frequent in moist places and in cultivated fields. *Fl.* : Nov.-Dec. *Paul* 2589.

VERBENACEAE

Gmelina arborea Roxb.

Frequent in scrub jungles. *Fl.* : March-April. *Saran & Party* 25865.

Lantana camara L. var. **aculeata** (L.) Mold.

Common in villages. *Fl.* : Feb. *Saran & Party* 25558.

Lippia javanica (Burm. f.) Spreng.

Not common in marshy waste lands. *Fl.* : July-Sept. *Paul* 2598.

Phyla nodiflora (L.) Green

Frequent in marshy places. *Fl.* : Oct.-Dec. *Srivastava & Party* 25677.

Pygnacopremna herbacea (Roxb.) Moldenke

Occasional in forest. *Fl.* : June. *Paul* 2609.

Verbena officinalis L.

Rare in paddy fields. *Fl.* : Dec.-Jan. *Paul* 2582.

Vitex negundo L.

Along roadsides near the villages. *Fl.* : July-Oct. *Paul* 2596.

FLORA OF RAJGIR HILLS

LABIATAE

Anisochilus carnosus Wall.

Frequent in paddy fields. *Fl.* : Nov.-Dec. *Paul* 2612.

Anisomeles indica (L.) Kuntze

In open country along hedges. *Fl.* : Oct. *Srivastava & Party* 46675.

Hyptis suaveolens Poit.

Frequent. *Fl.* : Nov. *Srivastava & Party* 46508.

Leucas cephalotes Spreng.

Frequent in cultivated fields. *Fl.* : Sept.-Dec. *Paul* 2601.

L. montana Spreng.

Occasional in forest. *Fl.* : Feb. *Srivastava & Party* 46560.

Nepeta hindostana (Roth) Haines

Rare in marshy waste lands. *Fl.* : Nov. *Paul* 2617.

Ocimum sanctum L.

Frequent near garden beds. *Fl.* : Oct.-Nov. *Srivastava & Party* 46570.

NYCTAGINACEAE

Boerhavia diffusa L.

Common near villages in waste grounds. *Fl.* : June-Oct. *Saran & Party* 25861.

AMARANTHACEAE

Achyranthes aspera L.

Frequent in waste places. *Fl.* & *Fr.* : Sept.-Nov. *Srivastava & Party* 46651.

Aerva lanata (L.) Juss.

Common. *Fl.* : Nov.-Dec. *Srivastava & Party* 46714.

A. sanguinolenta (L.) Bl.

Not common among grasses. *Fl.* : Sept.-Dec. *Srivastava & Party* 46523.

Alternanthera paronychioides St. Hil.

Frequent in marshy places. *Fl.* : Aug.-Oct. *Srivastava & Party* 46490.

A. sessilis (L.) DC.

Common in cultivated fields and moist places. *Fl.* : May-Sept. *Paul* 2606.

Amaranthus gracilis Desf.

Common in cultivated fields and dry, waste land. *Fl.* & *Fr.* : Sept.-Oct. *Saran & Party* 25860.

A. spinosus L.

Common in waste lands. *Fl.* & *Fr.* : Oct.-Jan. *Saran & Party* 25672.

A. tricolor L.

Frequent in waste lands and in cultivated grounds. *Fl.* & *Fr.* : Nov.-Jan. *Chandra & Party* 29349.

Celosia argentea L.

Not common in shady places. *Fl.* : Sept.-Nov. *Srivastava & Party* 46559.

Gomphrena celosioides Mart.

Occasional in cultivated grounds. *Fl.* : March-April. *Paul* 2608.

CHENOPODIACEAE

Chenopodium album L.

Common weed. *Fl.* : April. *Saran & Party* 25934.

C. murale L.

Frequent in cultivated fields. *Fl.* : Jan.-April. *Saran & Party* 25548.

POLYGONACEAE

Polygonum barbatum L.

Frequent along stream banks. *Fl.* : Nov.-Dec. *Paul* 2614.

P. limbatum Meissn.

Not common. *Fl.* : Dec.-April. *Paul* 2602.

P. plebeium R. Br.

Common in moist places, cultivated fields, dried ditches etc. *Fl.* : March-April. *Saran & Party* 25920.

P. stagnium Buch.-Ham.

Not common. *Fl.* : Dec.-Feb. *Paul* 2624.

Rumex maritimus L.

Common in waste places. *Fl.* : March-April. *Saran & Party* 25935.

LORANTHACEAE

Dendrophthoe falcata (L.f.) Etting

Common parasite on trees. *Fl.* : Dec.-Feb. *Paul* 2607.

EUPHORBIACEAE

Acalypha indica L.

Frequent weed in waste places. *Fl.* & *Fr.* : Nov.-Jan. *Saran & Party* 25857.

Bridelia montana Willd.

Occasional in forest. *Fl.* : Aug. *Srivastava & Party* 20660.

B. retusa Spreng.

Frequent. *Fl.* & *Fr.* : Aug.-Oct. *Srivastava & Party* 20638.

B. stipularis (L.) Bl.

Not common. *Fl.* & *Fr.* : April-Nov. *Srivastava & Party*, s.n.

B. tomentosa Bl.

Not common. *Fl.* & *Fr.* : Oct.-Feb. *Saran & Party*, s.n.

Croton bonplandianum Baill.

Very common in waste places. *Fl.* & *Fr.* : Feb.-April. *Saran & Party* 25673.

Cleistanthus collinus Benth.

Frequent in forest. *Fl.* : March-April. *Srivastava & Party*, s.n.

Euphorbia dracunculoides Lamk.

Frequent in waste ground. *Fl.* & *Fr.* : Oct.-Jan. *Srivastava & Party* 20021.

E. granulata Forsk.

Frequent on dry, fallow fields. *Fl.* : Sept.-Feb. *Chandra & Party* 29300.

E. hirta L.

Fairly common weed. *Fl.* : Aug.-Oct. *Paul* 2613.

E. microphylla Heyne

Frequently met with among grasses. *Fl.* : Aug.-Dec. *Saran & Party* 25914.

E. nivulia Buch.-Ham.

Occasional in rocky places. *Fl.* : March-April. *Saran & Party* 25832.

E. perbracteata Gage

Not common. *Fl.* : Jan.-March. *Chandra & Party* 29281.

Phyllanthus fraternus Webster

Common in waste places. *Fl.* : July-Sept. *Paul* 2604.

P. urinaria L.

Occasional along roadsides and in waste places. *Fl.* & *Fr.* : May-Nov. *Paul* 2620.

FLORA OF RAJGIR HILLS

Securinega virosa (Roxb. ex Willd.) Pax & Hoffm.

Frequent in forest. *Fl.* : June-Aug. *Srivastava & Party* 20648.

Tragia involucrata L.

Common in hedges. *Fl.* : Nov.-Jan. *Saran & Party* 25833.

T. gagei Haines

Rare in hedges. *Fl.* : Feb.-April. *Srivastava & Party, s.n.*

Trewia polycarpa Benth.

Frequent in waste places. *Fl.* : Feb.-April. *Saran & Party* 25954.

ULMACEAE

Trema orientalis (L.) Bl.

Occasional near villages. *Fl.* : Oct.-Dec. *Paul* 2611.

MORACEAE

Ficus glabella Bl.

Common in scrub jungles. *Fr.* : April-May. *Srivastava & Party, s.n.*

F. lacor Buch.-Ham.

Frequent in forest. *Fr.* : April. *Paul* 2619.

F. mollis Vahl

Frequent near villages. *Fr.* : March-May. *Paul* 2603.

F. racemosa L.

Common. *Fr.* : May-June. *Paul* 2621.

CERATOPHYLLACEAE

Ceratophyllum demersum L.

Frequent in marshy places. *Fl.* : Aug.-Oct. *Paul* 2623.

MONOCOTYLEDONS

HYDROCHARITACEAE

Hydrilla verticillata (L.f.) Royle

Common aquatic herb. *Fl.* : Aug.-Sept. *Srivastava & Party* 46493.

Vallisneria spiralis L.

Scarce in streams. *Fl.* : Feb.-March. *Paul* 2616.

ORCHIDACEAE

Vanda parviflora Lindl.

Frequent epiphyte. *Fl.* : March-April. *Paul* 2625.

HYPONIDACEAE

Curculigo orchioides Gaertn.

Not common in forest. *Fl.* : Oct.-Dec. *Paul* 2615.

DIOSCOREACEAE

Dioscorea bulbifera L.

Rare in hedges. *Fr.* : July-Aug. *Paul* 2631.

LILIACEAE

Asparagus racemosus Willd.

Not common. *Fl.* : Nov.-Jan. *Paul* 2618.

Asphodelus tenuifolius Cav.

Frequently met with as a weed of cultivated fields. *Fl.* & *Fr.* : April-Oct. *Paul* 2640.

PONTEDERIACEAE

Eichhornia crassipes (Mart.) Solms.

Not common in ditches below the hill. *Fl.* : March-April. *Paul* 2622.

COMMELINACEAE

Commelina benghalensis L.

Fairly common weed. *Fl.* : July-Aug.
Chandra & Party 29336.

C. forskalii Vahl

Common in marshy places. *Fl.* : Sept.-Oct. *Saran & Party* 25698.

Cyanotis cristata (L.) D. Don

Common in marshy places, among grasses and in crevices of rocks. *Fl.* : Oct.-Nov. *Paul* 2629.

Murdannia nudiflora (L.) Brenan

Common along streams, river banks and in moist grassy places. *Fl.* : Aug.-Sept. *Paul* 2638.

PALMAE

Phoenix acaulis Buch.-Ham.

Occasional in forest undergrowth.

ALISMATACEAE

Sagittaria guayanensis H.B. & K. subsp. *lappula* (D. Don) Bogin

Not common in muddy banks. *Fl.* : Sept.-Oct. *Paul* 2626.

POTAMOGETONACEAE

Potamogeton crispus L.

Frequent in shallow ditches. *Fl.* : Jan.-March. *Srivastava & Party* 46762.

ERIOCAULACEAE

Eriocaulon cinereum R. Br.

Frequent in paddy fields. *Fl.* : Oct. *Paul* 2634.

CYPERACEAE

Bulbostylis barbata (Rottb.) Cl.

Occasional in forest. *Fl.* : Sept.-Nov. *Chandra & Party* 37049.

Cyperus amabilis Vahl

Frequent. *Fl.* : April-Sept. *Chandra & Party* 36969.

C. brevifolius (Rottb.) Hassk.

Common in moist places. *Fl.* : June-Sept. *Saran & Party* 25697.

C. compressus L.

Common in rice-fields. *Fl.* : June-Aug. *Chandra & Party* 37013.

C. exaltatus Retz.

Common along streams. *Fl.* : Aug.-Oct. *Srivastava & Party* 21933.

C. iria L.

Common in rice fields. *Fl.* : Sept.-Jan. *Chandra & Party* 37004.

C. kyllingia Endl.

Frequent along streams in marshy places. *Fl.* : June-Aug. *Srivastava & Party* 21473.

C. malaccensis Lamk.

Not common among grasslands. *Fl.* : Sept.-Jan. *Saran & Party* 25946.

C. pygmaeus Rottb.

Not common in paddy-fields. *Fl.* : April-June. *Paul* 2633.

C. rotundus L.

Common in cultivated fields. *Fl.* : Aug.-Nov. *Chandra & Party* 29293.

Eleocharis plantaginea R. Br.

Frequent along margins of shallow ditches. *Fl.* : Oct.-Nov. *Srivastava & Party* 21478.

Fimbristylis junciformis Kunth

Common among grasses. *Fl.* : April-Aug. *Srivastava & Party* 21102.

F. monostachya Hassk.

Frequent near hot springs. *Fl.* : Aug.-Sept. *Srivastava & Party* 21121.

F. miliaceae (L.f.) Vahl (= *S. quinquangularis* Vahl)

Frequent in marshy places. *Fl.* : Oct.-Dec. *Srivastava & Party* 21475.

Scirpus maritimus L.

Common along streams. *Fl.* : March-April. *Saran & Party* 25922.

Scleria levis Retz.

(= *S. hebecarpa* Nees)

Not common. *Fl.* : Aug.-Oct. *Srivastava & Party* 20611.

POACEAE

Andropogon pumilus Roxb.

Frequent in forest. *Fl.* : Nov.-Dec. *Srivastava & Party* 20630.

Apluda mutica L.

Common on marshy banks of paddy fields. *Fl.* : Aug.-Sept. *Srivastava & Party* 20655.

Aristida adscensionis Lour.

Occasional in dry fields. *Fl.* : July. *Srivastava & Party* 20659.

Arthraxon lancifolius (Trin.) Hochst.

Common in open waste places. *Fl.* : Oct.-Nov. *Srivastava & Party* 20622.

Arundinella benghalensis Druce

Frequent in grasslands. *Fl.* : Aug.-Sept. *Srivastava & Party* 22636.

A. pumila (Hochst.) Steud.

Common on hill sides. *Fl.* : July-Aug. *Srivastava & Party* 21173.

Arundo donax L.

Frequent in forest. *Fl.* : Nov.-Dec. *Srivastava & Party* 21458.

Brachiaria ramosa (L.) Stapf

Occasional in waste places. *Fl.* : April-May. *Srivastava & Party* 21470.

B. reptans (L.) Gard. et Hubb.

Not common in paddy fields. *Fl.* : Oct.-Nov. *Paul* 2627.

Bothriochloa glabra Stapf

Occasional. *Fl.* : April. *Srivastava & Party* 20603.

B. pertusa (Willd.) A. Camus

Frequent in grasslands. *Fl.* : Nov.-Dec. *Srivastava & Party* 20615.

Chrysopogon fulvus (Spreng.) Chiov.

Common in open, moist, waste places. *Fl.* : Oct.-Nov. *Srivastava & Party* 20628.

Crypsis schoenoides Lamk.

Not common in waste places. *Fl.* : Sept.-Oct. *Srivastava & Party* 21465.

Cymbopogon caesius (Nees) Stapf

Rare in forest. *Fl.* : Nov. *Srivastava & Party* 20654.

C. martini (Roxb.) Wats.

Frequent in forest. *Fl.* : Oct.-Dec. *Srivastava & Party* 20200.

Cynodon dactylon (L.) Pers.

Very common everywhere. *Fl.* : Aug. *Paul* 2635.

Dendrocalamus strictus (Roxb.) Nees

Frequent in outskirts of forests. *Srivastava & Party* 20625.

Dicanthium annulatum (L.) A. Camus

Common on hilly slopes. *Fl.* : July-Aug. *Srivastava & Party* 46618.

- Digitaria adscendens (H.B. & K.) Henr. subsp. *adscendens***
Common in waste places. *Fl.* : Oct.-Nov. *Paul* 2628.
- D. marginata Link.**
Frequent among grasses. *Fl.* : Sept. *Srivastava & Party* 21093.
- Echinochloa colona (L.) Link.**
Common in marshy places and in paddy fields. *Fl.* : Oct.-Dec. *Chandra & Party* 29287.
- Eleusine indica (L.) Gaertn.**
Common along roadsides, waste places and in cultivated fields. *Fl.* : July-Aug. *Srivastava & Party* 21459.
- Eragrostiella bifaria (Vahl) Bor**
Occasional in moist grounds. *Fl.* : Aug. *Srivastava & Party* 20632.
- Eragrostis pilosa (L.) Beauv.**
Common in waste grounds. *Fl.* : July. *Srivastava & Party* 21127.
- E. tenella (L.) Beauv. ex Roem. & Sch.**
Frequent in grasslands. *Fl.* : Dec.-Jan. *Paul* 2637.
- Eulalia trispicata (Sch.) Henr.**
Frequent in open, waste grounds. *Fl.* : Oct.-Nov. *Chandra & Party* 33637.
- Hackelochloa granularis (L.) O. Kuntze**
Occasional in marshy places. *Fl.* : Nov.-Dec. *Srivastava & Party* 20641.
- Heteropogon contortus (L.) Beauv. ex R. & S.**
Common in forest. *Fl.* : March-April. *Srivastava & Party* 20619.
- Imperata cylindrica (L.) P. Beauv.**
Frequent in open grasslands. *Fl.* : Nov. *Srivastava & Party* 21136.
- Leptochloa chinensis (L.) Nees**
Frequent near hot springs. *Fl.* : April. *Srivastava & Party* 21133.
- Lolium perenne L.**
Occasional in the forest. *Fl.* : April-July. *Srivastava & Party* 21467.
- Microchloa setacea R. Br.**
Frequent on old walls of the fort. *Fl.* : Aug.-Sept. *Srivastava & Party* 20896.
- Oplismenus burmanni (Retz.) P. Beauv.**
Common along roadsides in the forest. *Fl.* : Oct.-Nov. *Srivastava & Party* 20631.
- Ophiurus monostachyus Presl.**
Not common. *Fl.* : Sept. *Srivastava & Party* 20642.
- Panicum paludosum Roxb.**
Occasional. *Fl.* : Oct. *Srivastava & Party* 21463.
- P. psilopodium Trin.**
Occasional in rice fields. *Fl.* : Nov. *Srivastava & Party* 21119.
- Paspalidium flavidum (Retz.) A. Camus**
Frequent in moist places. *Fl.* : Oct.-Nov. *Paul* 2632.
- Pennisetum pedicellatum Trin.**
Occasional in forest. *Fl.* : Sept.-Oct. *Srivastava & Party* 20618.
- Saccharum spontaneum L.**
Common in grasslands. *Fl.* : Aug.-Sept. *Srivastava & Party* 20198.
- Schizachyrium brevifolium (Sw.) Nees**
Frequent in dry, waste lands. *Fl.* : Nov.-Jan. *Srivastava & Party* 20616.

FLORA OF RAJGIR HILLS

S. exile Stapf

Occasional. *Fl.* : Nov. *Srivastava & Party* 20624.

Setaria glauca (L.) Beauv.

Very common. *Fl.* : Aug.-Sept. *Srivastava & Party* 20674.

Sporobolus diander (Retz.) Beauv.

Occasional in moist places and in cultivated fields. *Fl.* : Sept. *Chandra & Party* 27908.

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